

SWARTS TOOLS

**INSTRUCTION BOOKLET
AND WARRANTY INFORMATION**

355MM
Metal Cut off Saw
Part No.SW1720



PLEASE READ CARE AND SAFETY INSTRUCTIONS BEFORE USE

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric tools, machines or equipment basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

READ ALL INSTRUCTIONS BEFORE USING THIS TOOL

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp, wet or poorly lit locations. Don't expose your tool to rain. Keep the work area well lit. Don't use tools in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AND BYSTANDERS AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords. Visitors can be a distraction and are difficult to protect from injury.
4. **GROUNDING TOOLS** must be plugged into an outlet that itself is properly installed and grounded. Grounding provides a low-resistance path to carry electricity to ground away from the operator, should the tool malfunction electrically. Do not remove the grounding prong from the plug or alter the plug in any way. If in doubt as to whether the outlet is properly grounded according to code, check with a qualified electrician.
5. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces: pipes, radiators, ranges and refrigerator enclosures. When your body is grounded the risk of electric shock increases. When working wherever "live" electrical wires may be encountered, try to ascertain whether there is a danger of shock. Even so, **DO NOT TOUCH ANY METAL PARTS OF THE TOOL** while using it. Hold the tool only by the plastic grip to prevent electric shock if you contact a live wire.
6. **DO NOT ABUSE THE CORD.** Never carry power tool by the cord or pull on the cord to unplug it. Protect the cord from potential sources of damage: heat, oil and solvents, sharp edges or moving parts. Replace damaged cords immediately.
7. **WHEN WORKING OUTDOORS, USE AN OUTDOOR-RATED EXTENSION CORD.**
8. **DO NOT EXPOSE ELECTRICAL POWER TOOLS TO MOISTURE.** Rain or wet conditions can cause water to enter the tool and lead to electric shock.
9. **ENSURE THE EXTENSION CORD YOU USE IS OF SUFFICIENT GAUGE FOR ITS LENGTH.**

Recomended Minimum Wire Gauge for extension Cords						
Amps from Tool Nameplate	25' Length	50' Length	75' Length	100' Length	150' Length	200' Length
0 - 5 amps	16 ga.	16 ga.	16 ga.	14 ga.	12 ga.	12 ga.
5.1 - 8 amps	16 ga.	16 ga.	14 ga.	12 ga.	10 ga.	Do Not Use
8.1 - 12 amps	14 ga.	14 ga.	12 ga.	10 ga.	Do Not Use	Do Not Use
12.1 - 15 amps	12 ga.	12 ga.	10 ga.	10 ga.	Do Not Use	Do Not Use
15.1 - 20 amps	10 ga.	10 ga.	10 ga.	Do Not Use	Do Not Use	Do Not Use

10. **STORE IDLE EQUIPMENT.** Store equipment in a dry area to inhibit rust. Equipment also should be in a high location or locked up to keep out of reach of children.

IMPORTANT SAFETY INSTRUCTIONS

12. **DON'T FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
13. **USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.
14. **DRESS PROPERLY.** Don't wear loose clothing or jewellery; they can be caught in moving parts. Protective, non-electrically conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair and keep it from harm.
15. **USE EYE PROTECTION.** Use a full-face mask if the work you're doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work involves creating a lot of fine or course dust.
16. **SECURE WORK.** Use clamps or a vise to hold the work. It's safer than using your hands and it frees both hands to operate the tool.
17. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across machines that are running.
18. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. For safe performance keep handles dry, clean and free from oil and grease.
19. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the OFF position before plugging in.
20. **ALWAYS CHECK AND MAKE SURE TO REMOVE ANY ADJUSTING KEYS OR WRENCHES** before turning the tool on. Left attached, these parts can fly off a moving part and result in personal injury.
21. **DO NOT USE THE TOOL IF IT CANNOT BE SWITCHED ON OR OFF.** Have your tool repaired before using it.
22. **DISCONNECT THE PLUG FROM MAKING ADJUSTMENTS.** Changing attachments or accessories can be dangerous if the tool could accidentally start.
23. **STAY ALERT.** Watch what you are doing and use common sense. Don't operate any tool when you are tired.
24. **CHECK FOR DAMAGED PARTS.** Before using this tool, any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding or moving parts, breakage of parts, mountings and other conditions that may affect its operation. Inspect screws and tighten any that are loose. Any part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated elsewhere in the instruction manual. Have defective switches replaced by an authorised service centre. Don't use the tool if switch does not turn it on and off properly.
25. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
26. **SERVICE AND REPAIRS** should be made by qualified repair technicians at an authorised repair centre. Improperly repaired tools could cause serious shock or injury.

SAFETY PRECAUTIONS FOR CUT-OFF SAW

1. Make sure the cut-off wheel is securely mounted as described in the assembly instructions before connecting the tool to a power supply. Do not tighten wheel excessively, since this can cause cracks.
2. Check wheel for fissures and cracks and test for normal operation prior to use.
3. Use only cut-off wheels rated for 4400 rpm or greater. Always store the wheels in a dry place with little temperature variation.
4. Always ease the abrasive wheel against the work piece when starting to cut. A harsh impact can break the wheel.
5. Always press the trigger switch and allow the cut-off wheel to reach full speed before cutting.

**SWARTS
TOOLS**

SPECIFICATIONS

- Voltage: 240V 50HZ
- Current rating: 15 AMP
- No load speed: 3800 RPM
- 10-3/4" x 18-1/2" base
- 25.4mm Arbor with lock for changing wheels
- Adjustable pivoting scale vise stop
- Adjustable depth stop
- Quick release screw clamp

INCLUDES

- 255mm metal cut-off wheel
- Wheel removal hex key
- (2) Carbon motor brushes

FUNCTION DESCRIPTION

1. Carbon brush cap
2. Vise handle
3. Rubber foot
4. Base
5. Blade
6. Top guard
7. Switch
8. Handle



**SWARTS
TOOLS**

INSTRUCTION BOOKLET

OPERATING PROCEDURES

Warning. Do not connect the saw to power source until assembly is complete. Failure to comply could result in accidental starting and possible serious injury.

Warning. The recommended thickness of grinding wheel is 2.8mm, and diameter of wheel's hole is 25mm. 3. The maximum cutting capacity of cut-off machine is 100mm.

CUT-OFF WHEEL REMOVAL

1. Be sure the tool is disconnected from the power source.
2. Raise the tool to its full open position, remove nut on the blade cover and rotate the lower wheel guard downward, exposing the hex head bolt which secures the abrasive wheel to the wheel arbor.
3. Push in the shaft lock lever and rotate the wheel until the safety lock level engages, locking the wheel in place.
4. While holding the shaft lock lever in place, use the supplied wrench and loosen the hex head bolt by rotating it counter clockwise. Remove the hex bolt, washer, outside flange and abrasive wheel.

CUT-OFF WHEEL INSTALLATION

1. Be sure the tool is disconnected from the power source.
2. Inspect the replacement wheel for defects such as cracks, chipping and correct speed rating. If defects are found or the speed rating is not greater than 4400RPM discard the wheel and select another.
3. Remove any debris from the inside flange and inner washer. Position the new abrasive wheel over the inner washer and against the inside flange.
4. Clean and align the outside flange to the wheel arbor, then slide it onto the arbor until it rests flush against the abrasive wheel.
5. Insert the hex head bolt onto the threaded end of the wheel arbor and rotate it in a clockwise direction until snug. Then depress the shaft lock lever to prevent the shaft from rotating, use the supplied wrench to securely tighten the hex head bolt to hold the abrasive wheel firmly in place.

Warning. Do not over tighten the hex bolt. Over tightening can cause the new wheel to crack, resulting in premature failure and possible serious injury.

6. Return the wheel guard to its lower position and replace nut to secure wheel guard.

DOUBLE ACTION SAFETY SWITCH

To prevent accidental use of the cut-off saw, the machine will only operate when pressing both the trigger and the locking switch are engaged.

**SWARTS
TOOLS**

INSTRUCTIONS FOR USE

Warning. Always unplug the saw from power source before making adjustments or performing routine maintenance. Failure to heed this warning can result in serious injury.

USING THE ADJUSTABLE STATIONARY VISE.

The adjustable stationary vise is located on the base of your cut-off saw. This vise can be rotated to attain cutting angles from 0 to 45 degrees and moved rearward to allow greater cutting widths.

CUTTING ANGLE ADJUSTMENT:

1. Using the supplied wrench, loosen hex head bolts behind the vise fence;
2. Rotate the vise fence until the desired angle of the cut is aligned with the indicator groove in the saw base.
3. Check the angle of the vise fence to the abrasive wheel using a protractor, bevel square or similar device.
4. Using the supplied wrench, securely tighten the hex head bolts holding the vise to the saw base.

TO INCREASE THE WIDTH OF CUT OF THE CUT-OFF SAW:

1. Using the supplied wrench, remove hex head bolts securing the vise to the cut-off saw base.
2. Reposition the curved slot of the vise base with the most rearward threaded hole in the saw base and install a hex head bolt in this hole. DO NOT TIGHTEN.
3. Align the remaining vise bolt hole with the middle-threaded hole in the saw base and install a hex head bolt.
4. Check or adjust the cutting angle and securely tighten both hex head bolts with the supplied wrench.

QUICK LOCK/RELEASE VISE

This cut-off saw is equipped with a quick lock/release vise system as standard. With this feature, you are able to open and close the vise quickly without repetitive turning of the vise crank handle.

USING THE QUICK LOCK-RELEASE VISE

TO LOOSEN:

1. Slightly release tension on the vise by rotating the crank handle counterclockwise.
2. Lift up the quick lock/release lever and pull back on crank handle to slide open the vise.

TO TIGHTEN:

1. Push the crank handle forward to slide the vise against the work place.
2. Push down on the quick lock/release lever to engage its threads with vise screw.
3. Rotate the crank handle clockwise to tighten the vise against the work place.

**SWARTS
TOOLS**

INSTRUCTIONS FOR USE

ADJUSTABLE POSITIVE DEPTH STOP

The adjustable depth stop is threaded into the base of the saw at the rear. By raising and lowering the depth stop bolt with a wrench you can control how far the abrasive wheel travels when the saw handle is depressed.

POWER SUPPLY

Before operating the cut-off saw, check the power supply and make sure it meets the requirements listed on the nameplate. A substantial voltage drop will cause loss of power and the saw to overheat.

Common causes of power loss and saw overheating include insufficient extension cord size and multiple tools operating from the same power source.

SWITCH

- To start the tool, completely depress the trigger and safety switches located in the saw handle.
- To stop the tool, release the trigger switch completely.

CUTTING

Warning. Do not attempt to cut wood or masonry with this saw. Never cut magnesium or magnesium alloy with this tool. Failure to comply with this warning could result in serious injury.

1. Secure the tool in place to prevent saw movement or tipping during the cutting procedure.
2. Firmly secure the material to be cut using the saws' vise.

Warning. *Large, circular or irregularly shaped material may require additional means of clamping to be secured in place for cutting. Use C clamps and blocks to hold material securely. Failure to comply could result in serious injury.*

3. Start the saw by fully depressing the trigger switches and allow the cut-off wheel to come up to full speed before contacting wheel to material.
4. Slowly push down the saw arm handle until the cut-off wheel contacts the material being cut. Use a steady and even amount of pressure to obtain a uniform cut. Never force the wheel into the material.
5. When the cut is complete, release the trigger switch and allow the wheel to stop before raising it to the full open position.

Danger. *Do not touch the cut material until it cools or you will be burned. Failure to heed this warning will result in serious personal injury.*

**SWARTS
TOOLS**

MAINTENANCE

Warning. Provide adequate ventilation when using solvents. Do not use solvents to clean plastic parts. Make sure the tool operates properly. Periodically check screws and bolts for tightness. Apply dry lubricant monthly to the points listed to extend saw life.

LUBRICATION POINTS:

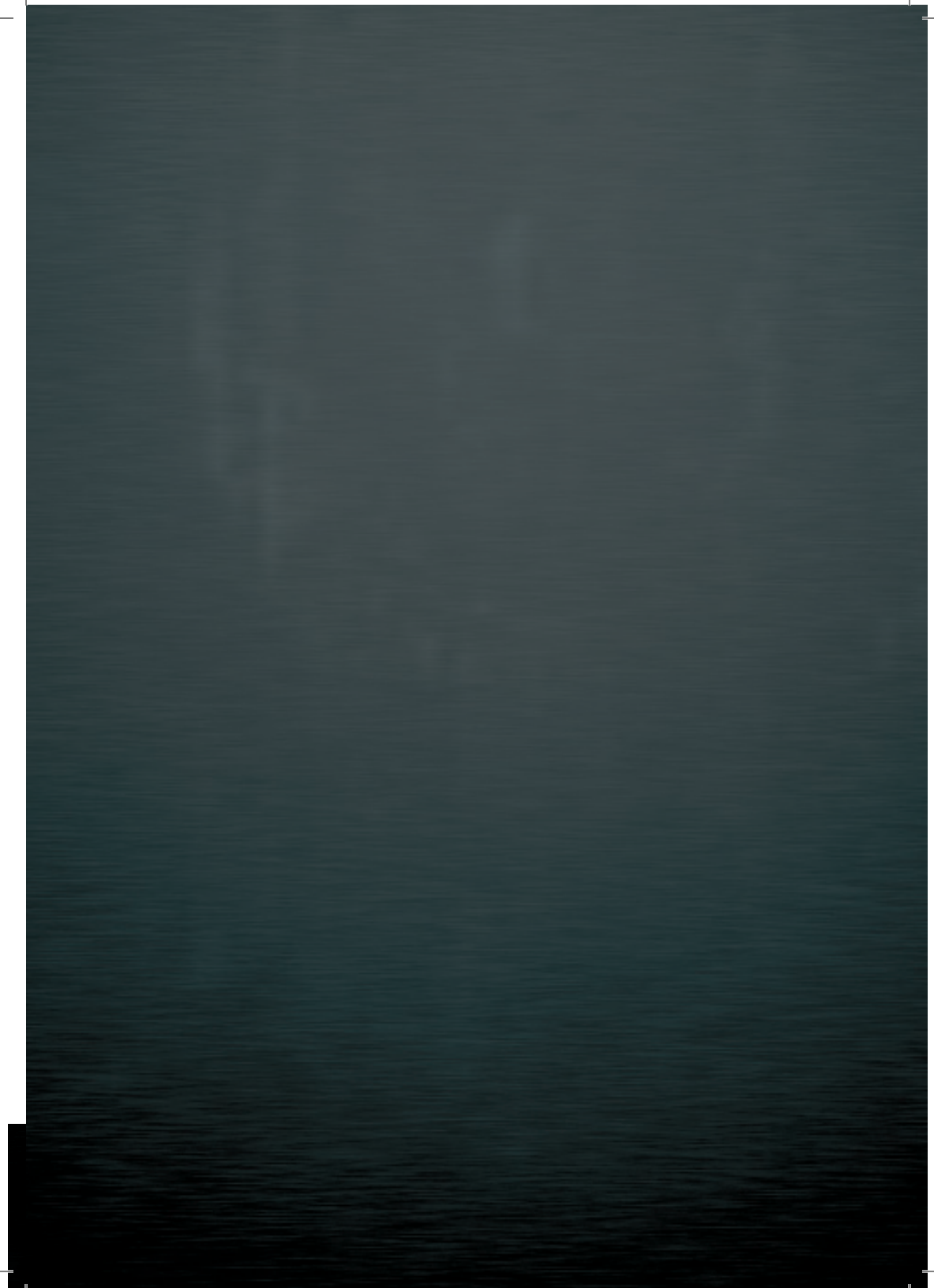
- Vise screw shaft
- Front vise clamp rotation clamp

Remove the brush caps at regular intervals to check the carbon brushes.

When the brushes are worn to the Standard Line, as indicated on the brush, replace them.

WARRANTY

The product is warranted to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the date of sale. This warranty covers defective parts and workmanship provided that the product is shipped pre-paid to the seller within 24 months of purchase of goods. This warranty is limited to the repair or replacement (at the manufacturers' discretion) of parts and shipping prepaid to the original despatch destination. We regret that no liability can be accepted for consequential or special damages of any kind howsoever arising in connection with products supplied by the seller. This warranty is in lieu of all other warranties expressed or implied. No representative is authorised to assume for the seller any other liability in connection with the seller's products.



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